

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

**San Joaquin River Basin**

<b>RD2085</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
<b>Reclamation District No. 2085 Kasson</b>	<b>M *</b>	<b>6.28</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.01		
Encroachments					0.52			
Animal Control	0.09		0.09	1.43%				
Slope Stability	0.04		0.04	0.64%				
Erosion / Bank Caving		0.02	0.08	1.27%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.32%				
DWR UCIP Field Study					0.08			
<i>LMA Totals:</i>	0.15	0.02	0.23	3.66% *	0.65	0.01	0.00	0.00
<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>A</b>	<b>5.29</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.01		
Encroachments					0.52			
Animal Control	0.09		0.09	1.70%				
Slope Stability	0.03		0.03	0.57%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02		0.02	0.38%				
DWR UCIP Field Study					0.08			
<i>Unit Totals:</i>	0.14	0.00	0.14	2.65%	0.65	0.01	0.00	0.00
<b>Unit No. 02 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>A</b>	<b>0.70</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				
<b>Unit No. 03 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>U</b>	<b>0.29</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Slope Stability	0.01		0.01	3.39%				
Erosion / Bank Caving		0.02	0.08	27.14%				
<i>Unit Totals:</i>	0.01	0.02	0.09	30.53%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than  
10.00%; however, U Rated Miles are present,  
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_7				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_9				
Comment Code					
Inspector Comment					
Flood fighting supplies are available at the River Club.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2085_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA has a flood fighting plan and training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2085 Kasson

View of the ditch at the landside levee toe.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.35	Rating **	M	Issue No.	53
LM End	1.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714404 °	37.714404 °
				-121.289469 °	-121.289469 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:22285  
DS\_ID:24055  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No permit identified for this modified crossing.  
FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Siphon breaker in 12-inch steel riser unit and a gatevalve on the waterward shoulder. (Permit No. 8189, 1972)  
FS Date: 9/10/2013

LM Start	<b>1.35</b>	Rating **	M	Issue No.	<b>53 (cont)</b>
LM End	<b>1.35</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_22285\_38010.jpg



Pipe, gate valve, and siphon breaker visible on WS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_22285\_38009.jpg



Pipe, pump, and walkway visible on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	60
LM End	1.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.714049 °	37.714049 °
				-121.288426 °	-121.288426 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41351					
DS_ID:20679					
EP_NO: 3975					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned and should be done so properly.					
Large hole in ground over pipe on WS berm. Pipe rusted through on					
WS at river bank. No connection to pump on LS toe.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe					
through the levee 4-feet below the crown. Steel plate over pipe end at					
pump station on LS toe. Siphon breaker in 24-inch corrugated metal					
riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally					
included in the 1968 O&M manual.					
FS Date: 9/5/2013					

LM Start	<b>1.41</b>	Rating **	M	Issue No.	<b>60 (cont)</b>
LM End	<b>1.41</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_41351\_62268.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 2 of 2 : UCIP\_FA\_2016\_41351\_62267.jpg



Pipe visible at bottom of ditch on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	1.79	Rating **	M	Issue No.	39
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.711456 °	37.711456 °
				-121.282397 °	-121.282397 °
DWR ID	DWR_RD2085_01_s_ 2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee.					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_39\_20160914\_00016.jpg



View of the rodent burrows on the landside levee slope.

LM Start	2.04	Rating **	M	Issue No.	55
LM End	2.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.708826 °	37.708826 °
				-121.279271 °	-121.279271 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19423 DS_ID:20681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM					

Photo 1 of 2 : UCIP\_FA\_2016\_19423\_32962.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Possible gate valve at end of concrete channel on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.04	Rating **	M	Issue No.	55 (cont)	
LM End	2.04	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.708826 °	37.708826 °	
				-121.279271 °	-121.279271 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19423 DS_ID:20681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe is abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 10-inch pipe through the levee 2.0-feet below the crown. Pump mounted on pile structure in the river. Siphon breaker in 24-inch CMP riser on the LS slope. Power pole on LS toe. Wooden stairs and walkway from the berm to the pump structure. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 8:22:24 AM						

Photo 2 of 2 : UCIP\_FA\_2016\_19423\_32961.jpg



Pipe cut at wooden pier. No pump on end of pier for this pipe.

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.708737 °	37.703893 °
				-121.279087 °	-121.274605 °
DWR ID	DWR_RD2085_01_s_2012_18				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete-lined ditch near levee toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2085 Kasson

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# Reclamation District No. 2085 Kasson



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.82	Rating **	M	Issue No.	56
LM End	2.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699698 °	37.699698 °
				-121.276325 °	-121.276325 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:19431  
DS\_ID:20688  
EP\_NO: 16970  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: The wooden walkway on the WS slope is in disrepair.  
FIELD\_STRUCT\_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee 2.0 feet below the crown. Pump on wooden pier at WS slope.  
Siphon breaker visible next to steel bollard on LS slope. Power pole on LS toe.  
FS Date: 9/5/2013

LM Start	<b>2.82</b>	Rating **	M	Issue No.	<b>56 (cont)</b>
LM End	<b>2.82</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_19431\_32983.jpg



Pump on Wooden pier at WS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_19431\_32982.jpg



Pipe visible under walkway on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	2.90	Rating **	A/W	Issue No.	21
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698700 °	37.698700 °
				-121.277199 °	-121.277199 °
DWR ID	DWR_RD2085_01_f_2015_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This area should be monitored for possible rodent activity.					

No Photos

LM Start	2.96	Rating **	C	Issue No.	41
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698050 °	37.698050 °
				-121.277842 °	-121.277842 °
DWR ID	DWR_RD2085_01_s_2016_41				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.03	Rating **	C	Issue No.	24
LM End	3.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.697115 °	37.697115 °
				-121.277870 °	-121.277870 °
DWR ID	DWR_RD2085_01_f_2015_24				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side    N/A : Not Applicable		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	57
LM End	3.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_19433\_32990.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

LM Start	<b>3.30</b>	Rating **	M	Issue No.	<b>57 (cont)</b>
LM End	<b>3.30</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_FA\_2016\_19433\_32989.jpg



Pipe visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019 °	37.693019 °
				-121.277892 °	-121.277892 °
DWR ID	DWR_RD2085_01_s_2014_30				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	3.38	Rating **	C	Issue No.	43
LM End	3.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.692565 °	37.692565 °
				-121.278012 °	-121.278012 °
DWR ID	DWR_RD2085_01_s_2016_43				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA repaired the rodent damage.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.42	Rating **	M	Issue No.	58
LM End	3.42	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.691966 °	37.691966 °
				-121.278122 °	-121.278122 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19435 DS_ID:20687 EP_NO: 16970 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch steel stormdrain pipe through the levee 2-feet below the crown. Appears to connect to pump 150-feet off LS toe. Possible butterfly valve at LS toe. Vent on WS shoulder. Steel plate welded over pipe end on WS toe. FS Date: 9/5/2013					

LM Start	<b>3.42</b>	Rating **	M	Issue No.	<b>58 (cont)</b>
LM End	<b>3.42</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_19435\_32993.jpg



Possible Butterfly valve at LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_19435\_32992.jpg



Possible connection at pump 150-feet off LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.55	Rating **	A/W	Issue No.	44
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690418 °	37.690418 °
				-121.276815 °	-121.276815 °
DWR ID	DWR_RD2085_01_s_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee slope.					

No Photos

LM Start	3.57	Rating **	M	Issue No.	45
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690161 °	37.690161 °
				-121.276543 °	-121.276543 °
DWR ID	DWR_RD2085_01_s_2016_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA\_2016\_RD2085\_113\_45\_20161024\_00050.jpg



View of the rodent burrows on the landside levee slope. Fall 2016

LM Start	<b>3.57</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>3.57</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2016\_RD2085\_113\_45\_20160914\_00018.jpg



View of the rodent burrows on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.62	Rating **	A/W	Issue No.	2
LM End	3.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.688545 °	37.688545 °
				-121.276298 °	-121.276298 °
DWR ID					

**Comment Code**

**Inspector Comment**

07/08/2016: The erosion in the berm was found slightly progressed toward the levee toe. Signs of fresh erosion at the site are visible.  
 08/19/2015: No significant change observed.  
 07/17/2014: No significant change observed.  
 09/10/2013: No significant change observed.  
 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2016 Site ID:RD2085U01RM67.7]

LM Start	<b>3.62</b>	Rating **	A/W	Issue No.	<b>2 (cont)</b>
LM End	<b>3.75</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SJR2016\_RD2085U01RM67.7\_1.jpg



View of the downstream end of the erosion.

Photo 2 of 3 : SJR2016\_RD2085U01RM67.7\_2.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.62	Rating **	A/W	Issue No.	2 (cont)	
LM End	3.75	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.688545 °	37.688545 °	
				-121.276298 °	-121.276298 °	
DWR ID						
Comment Code						
Inspector Comment						
07/08/2016: The erosion in the berm was found slightly progressed toward the levee toe. Signs of fresh erosion at the site are visible. 08/19/2015: No significant change observed. 07/17/2014: No significant change observed. 09/10/2013: No significant change observed. 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2016 Site ID:RD2085U01RM67.7]						

Photo 3 of 3 : SJR2016\_RD2085U01RM67.7\_4.jpg



Close view of the erosion.

LM Start	3.65	Rating **	M	Issue No.	37
LM End	3.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.689090 °	37.689090 °
				-121.276326 °	-121.276326 °
DWR ID	DWR_RD2085_01_f_2016_37				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.71	Rating **	A/W	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Control levee access to prevent damage to levee slopes by vehicle.					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_25\_20160914\_00009.jpg



View of the waterside levee slope damaged by vehicle.

LM Start	3.74	Rating **	A/W	Issue No.	26
LM End	3.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687841 °	37.687841 °
				-121.276678 °	-121.276678 °
DWR ID	DWR_RD2085_01_f_2015_26				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Area should be maintained to prevent further levee damage.					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_26\_20161024\_00049.jpg



View of the foot path on the levee slope.

LM Start	3.78	Rating **	M	Issue No.	46
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687253 °	37.687253 °
				-121.276780 °	-121.276780 °
DWR ID	DWR_RD2085_01_s_2016_46				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	3.86	Rating **	M	Issue No.	36
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686059 °	37.685340 °
				-121.276745 °	-121.276594 °
DWR ID	DWR_RD2085_01_f_2016_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_36\_20161024\_00048.jpg



View of the rodent holes on the levee slope.

LM Start	4.03	Rating **	M	Issue No.	59
LM End	4.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.683642 °	37.683642 °
				-121.275792 °	-121.275792 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19443 DS_ID:20684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_19443\_33002.jpg



Pumphouse and pipe visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	4.03	Rating **	M	Issue No.	59 (cont)	
LM End	4.03	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.683642 °	37.683642 °	
				-121.275792 °	-121.275792 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19443 DS_ID:20684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee 4.0-feet below the crown. Pump house on the waterward berm. Siphon breaker in 24-inch corrugated metal riser unit on the landside shoulder. Vent on WS toe. 2-inch galvanized iron electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/5/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_19443\_33001.jpg



Siphon breaker on vent in 24-inch CMP riser on LS shoulder.

LM Start	4.15	Rating **	M	Issue No.	34
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682495 °	37.682495 °
				-121.274169 °	-121.274169 °
DWR ID	DWR_RD2085_01_f_2016_34				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_34\_20161024\_00047.jpg



View of the rodent holes on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2085 Kasson



# Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

A photograph of a large, weathered tree stump in a grassy yard. In the background, there are houses and trees. The foreground is covered with dry, brown grass and debris.

11/03/2011 Large stump on landside slope.

LM Start	4.49	Rating **	U	Issue No.	28
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.681453 °	37.681453 °
				-121.268327 °	-121.268327 °
DWR ID	DWR_RD2085_01_f _ 2015_28				
Comment Code					
V6 : Landscaping					
Inspector Comment					

A photograph of a residential property. In the foreground, there is a large, dense green bush and a dirt/gravel area. In the background, a house with a brown roof and a blue hot tub are visible. A date stamp '11/18/2016' is present in the bottom right corner.

View of the unmaintained vegetation at the landside levee toe.

LM Start	4.59	Rating **	M	Issue No.	17
LM End	4.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.681158 °	37.681158 °
				-121.266587 °	-121.266587 °
DWR ID	DWR_RD2085_01_f_2013_17				
Comment Code					
FW : Firewood					
Inspector Comment					

A photograph of a residential property. In the foreground, there is a large pile of brush, twigs, and debris on a grassy lawn. In the background, a white house is visible, partially obscured by trees. A white SUV is parked on the lawn near the house. A date stamp '10/10/2016' is visible in the bottom right corner of the image.

View of the firewood and debris stored at the landside levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	5.20	Rating **	M	Issue No.	52
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.675620 °	37.675620 °
				-121.269359 °	-121.269359 °
DWR ID	DWR_RD2085_01_s_2016_52				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_52\_20161024\_00044.jpg



View of the tire tracks on the levee slope.

LM Start	5.23	Rating **	M	Issue No.	54
LM End	5.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22290					
DS_ID:24058					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel riser on LS shoulder.					
FS Date: 9/10/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_22290\_38020.jpg



Siphon breaker in 10-inch steel riser on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	5.23	Rating **	M	Issue No.	54 (cont)
LM End	5.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.675244 °	37.675244 °
				-121.269287 °	-121.269287 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22290 DS_ID:24058 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee at unknown depth below the crown. Siphon breaker in 10-inch steel riser on LS shoulder. FS Date: 9/10/2013					

Photo 2 of 2 : UCIP\_FA\_2016\_22290\_38019.jpg



Cuts in pavement may indicate alignment of pipe at LS toe.

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099 °	37.675099 °
				-121.269264 °	-121.269264 °
DWR ID	DWR_RD2085_01_f _ 2015_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2085\_113\_29\_20161024\_00043.jpg



View of the tree stump.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.70
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.02	Rating **	A	Issue No.	1
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705041 °	37.714004 °
				-121.274570 °	-121.269690 °
DWR ID	DWR_RD2085_02_f_2016_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA has good vegetation control this season.					

Photo 1 of 1 : FA\_2016\_RD2085\_114\_1\_20161024\_00001.jpg



View of the well maintained vegetation on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/17/2016 - 3/17/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan RD2085		Ralph Timan RD2085	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.01	Rating **	A	Issue No.	4
LM End	0.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.680574 °	37.680574 °
				-121.264585 °	-121.264585 °
DWR ID	DWR_RD2085_03_f_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA did a great job controlling the vegetation this season.					

Photo 1 of 1 : FA\_2016\_RD2085\_115\_4\_20161024\_00002.jpg



View of the well maintained vegetation on the levee slope.

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798 °	37.683052 °
				-121.262059 °	-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

Photo 1 of 2 : FA\_2016\_RD2085\_115\_1\_20161024\_00003.jpg



View of the erosion at the waterside levee toe. Fall 2016.

LM Start	<b>0.21</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2016\_RD2085\_115\_1\_20160914\_00001.jpg



View of the erosion at the waterside levee toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	10/19/2016 10/19/2016	Maksim Khashchuk

LM Start	0.22	Rating **	C	Issue No.	6
LM End	0.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682844 °	37.682844 °
				-121.262002 °	-121.262002 °
DWR ID	DWR_RD2085_03_f_2015_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.25	Rating **	M	Issue No.	7
LM End	0.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.683274 °	37.683274 °
				-121.261839 °	-121.261839 °
DWR ID	DWR_RD2085_03_f_2016_7				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2085\_115\_7\_20161024\_00004.jpg



View of the tire tracks on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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